



# Anti-NRG1 polyclonal antibody [Biotin] (DPABY-396)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Antigen Description</b>	The neuregulin (also known as heregulin) cytokine family is comprised of four genes that encode a large number of secreted or membrane-bound isoforms. All family members share an EGF-like domain that interacts with the ErbB family of tyrosine kinase receptors. The NRG1 gene is the most pleiotropic, encoding more than 14 soluble or transmembrane proteins. NRG1 isoforms can be classified into type I (neu differentiation factor, NDF; heregulin, HRG; acetylcholine receptor inducing activity, ARIA), type II (glial growth factor, GGF) and type III (sensory and motor neuron-derived factor, SMDF) isoforms. NRG proteins show distinct spatial and temporal expression patterns and play important roles during development of both the nervous system and the heart.
<b>Specificity</b>	Detects human NRG1-beta 1/HRG1-beta 1 in ELISAs and Western blots. In sandwich immunoassays, less than 2% cross-reactivity with the EGF domain of recombinant human (rh) NRG1-beta 1/HRG1-beta 1 is observed and less than 0.3% cross-reactivity with rhHRG-alpha, rhErbB2, rhErbB3, and rhErbB4 is observed.
<b>Immunogen</b>	E. coli-derived recombinant human NRG1-beta 1/HRG1-beta 1 . Ser2-Lys246 Accession Number AAA58639
<b>Isotype</b>	IgG
<b>Source/Host</b>	Goat
<b>Species Reactivity</b>	Human
<b>Purification</b>	Antigen Affinity-purified
<b>Conjugate</b>	Biotin
<b>Applications</b>	Western Blot, ELISA Detection (Matched Pair)

<b>Format</b>	Liquid
<b>Size</b>	50 µg
<b>Buffer</b>	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein.
<b>Preservative</b>	None
<b>Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 6 months, -20 to -70 °C under sterile conditions after reconstitution.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">NRG1 neuregulin 1 [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	NRG1
<b>Synonyms</b>	NRG1; neuregulin 1; GGF; HGL; HRG; NDF; ARIA; GGF2; HRG1; HRGA; SMDF; MST131; MSTP131; NRG1-IT2; pro-neuregulin-1, membrane-bound isoform; pro-NRG1; glial growth factor; neu differentiation factor; sensory and motor neuron derived factor; heregulin, alpha
<b>Entrez Gene ID</b>	<a href="#">3084</a>
<b>Protein Refseq</b>	<a href="#">NP_001153467</a>
<b>UniProt ID</b>	<a href="#">A6MW56</a>
<b>Chromosome Location</b>	8p12
<b>Pathway</b>	Adaptive Immune System; Cardiac Progenitor Differentiation; Constitutive PI3K/AKT Signaling in Cancer; DAP12 interactions; DAP12 signaling; Disease; Downregulation of ERBB2:ERBB3 signaling; Downstream signal transduction;
<b>Function</b>	ErbB-2 class receptor binding; ErbB-3 class receptor binding; cytokine activity; growth factor activity; protein binding; protein tyrosine kinase activator activity; receptor binding; receptor tyrosine kinase binding; transcription cofactor activity; tran